

CLAIMS

What is claimed is:

1. An impact printer comprising:

pins for providing an impact; and

an impact force controller for changing the force with which the pins impact in accordance with the settings for characters that are to be printed.

2. An impact printer comprising:

pins for providing an impact;

an impact force controller for changing the force with which the pins impact in accordance with the settings for characters that are to be printed;

drive means having a coil for driving the pins using magnetic force generated by electricity; and

electricity supply means for supplying electricity to the coil, wherein the impact force of the pins are changed according to changes of the magnetic force.

3. The impact printer according to the claim 2, wherein the impact force controller changes a supply time or a voltage of the electricity to the drive means.

1 4. A form printer comprising:

2 a plurality of pins, for impacting a form on a platen;

3 a drive unit, for reciprocally driving the pins in both forward and backward directions
4 relative to the form on the platen; and

5 a controller for controlling the drive unit and for changing the impact force of the pins, in
6 accordance with the types of characters that are to be printed.

1 5. The form printer according to the claim 4, wherein the moving velocity of the pins is
2 changed in order to alter the impact force.

1 6. A form printer comprising:

2 a plurality of pins, for impacting a form on a platen;

3 a drive unit, for reciprocally driving said pins in both forward and backward directions;
4 and

5 a controller for controlling the drive unit and for changing the impact force of the pins, in
6 accordance with the types of characters that are to be printed, wherein a plurality of
7 character sets are printed and wherein, when a character to be printed belongs to a first
8 character set in which thick characters are included, the controller reduces the impact
9 force transferred by the pins and further wherein, when a character to be printed belongs
10 to a second character set in which fine characters are included, the controller increases the
11 impact force.

1 7. A printer, which forms multiple dots by transferring an impact force to an object and
2 printing an image, comprising:

3 a plurality of pins, for transferring the impact force; and

4 impact force controller, for changing the impact force exerted by the plurality of pins in
5 accordance with the number of dots that are arranged across the widths of lines forming
6 the print image.

1 8. A printer, which forms multiple dots by transferring an impact force to an object and
2 printing an image, comprising:

3 pins for transferring the impact force; and

4 impact force controller, for changing the impact force exerted by the pins in accordance
5 with the number of dots that are arranged across the widths of lines forming the print
6 image, wherein the impact force is set to a mode at one of a plurality of levels, and the
7 impact force controller changes the mode in accordance with the number of dots that are
8 arranged across the widths of lines forming an object image.

1 9. The printer according to the claim 8, wherein, the command for changing the mode is
2 included in print data for a character, and the impact force controller changes the mode in
3 response to said mode.

1 10. A method for controlling a printer, whose pins impact a print object and print a plurality
2 of dots of a plurality of character sets, comprising the steps of:

3 identifying a character set to be printed; and

4 generating impact power to the pins in accordance with the types of the identified
5 character set.

1 11. A printing controller, for a printer that by transferring an impact force using pins forms
2 dots and prints characters on a sheet, comprising:

3
4 a data analyzer, for determining the type of character set included in print data; and

5
6 a printer head controller, for employing the determination results obtained by the data
7 analyzer to change the impact force transferred by the pins.

1 12. A printing controller, for a printer that by transferring an impact force using pins forms
2 dots and prints characters on a sheet, comprising:

3
4 a data analyzer, for determining the type of character set included in print data in
5 accordance with the predetermined command that is entered when a character font is to
6 be changed; and

7
8 a printer head controller, for employing the determination results obtained by the data
9 analyzer to change the impact force transferred by the pins.

1 13. A printing controller, for a printer that by transferring an impact force using pins forms
2 dots and prints characters on a sheet, comprising:

3
4 a data analyzer, for determining the type of character set included in print data in
5 accordance with the predetermined command that is entered when a character font is to
6 be changed; and

7
8 a printer head controller, for employing the determination results obtained by the data
9 analyzer to change the impact force transferred by the pins, the printer head controller
10 selecting and designating one setup value that corresponds to a character font from among
11 values that are prepared for a plurality of levels to control the impact force transferred by
12 the pins.